Performance Data Sheet

AWG5515EVA

General Information

Model	AWG5515EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2880	2430					
	Watts	567	539					
	Amps	3.09	2.97					
	Lb/h	37.0	32.7					
-10	Btu/h	3700	3200	2640				
	Watts	628	607	589				
	Amps	3.32	3.23	3.15				
	Lb/h	47.3	42.7	36.9				
-5	Btu/h	4600	4050	3440	2790			
	Watts	683	670	660	647			
	Amps	3.53	3.48	3.44	3.37			
	Lb/h	58.6	53.6	47.5	40.5			
0	Btu/h	5610	4990	4310	3610	2900		
	Watts	731	728	726	721	710		
	Amps	3.73	3.72	3.71	3.69	3.63		
	Lb/h	71.0	65.6	59.1	51.7	43.6		
5	Btu/h	6730	6040	5290	4510	3730		
	Watts	774	780	787	791	789		
	Amps	3.91	3.94	3.98	4.00	3.98		
	Lb/h	84.6	78.8	71.8	63.9	55.4		
10	Btu/h	7970	7190	6360	5500	4650	3820	3050
	Watts	809	825	842	856	864	862	847
	Amps	4.07	4.15	4.23	4.29	4.32	4.30	4.20
	Lb/h	99.5	93.2	85.8	77.4	68.4	59.1	49.7
15	Btu/h	9330	8460	7540	6600	5660	4750	3900
	Watts	839	865	893	917	935	943	938
	Amps	4.20	4.33	4.46	4.57	4.65	4.68	4.63
	Lb/h	116	109	101	92.2	82.6	72.8	62.8
20	Btu/h	10800	9860	8840	7810	6770	5770	4830
	Watts	861	899	938	973	1000	1020	1030
	Amps	4.31	4.49	4.67	4.83	4.96	5.04	5.05
	Lb/h	133	126	118	108	98.2	87.8	77.3

25	Btu/h	12500	11400	10300	9130	8000	6900	5850
	Watts	876	927	977	1020	1060	1090	1110
	Amps	4.39	4.62	4.86	5.08	5.26	5.39	5.46
	Lb/h	153	145	136	126	115	104	93.0
30	Btu/h	14300	13100	11800	10600	9340	8130	6980
	Watts	885	948	1010	1070	1120	1160	1190
	Amps	4.44	4.73	5.02	5.29	5.54	5.73	5.85
	Lb/h	174	165	156	145	134	122	110
35	Btu/h	16200	14900	13500	12200	10800	9490	8230
	Watts	886	962	1040	1110	1180	1230	1270
	Amps	4.46	4.80	5.15	5.49	5.79	6.04	6.22
	Lb/h	196	187	177	166	154	141	129
40	Btu/h	18300	16900	15400	13900	12400	11000	9590
	Watts	880	970	1060	1150	1220	1290	1350
	Amps	4.43	4.84	5.25	5.65	6.02	6.33	6.58
	Lb/h	221	211	200	188	175	162	149
45	Btu/h	20600	19100	17400	15800	14200	12600	11100
	Watts	866	971	1080	1180	1270	1350	1420
	Amps	4.37	4.84	5.32	5.78	6.22	6.60	6.91
	Lb/h	247	237	225	212	199	185	171
50	Btu/h	23100	21400	19600	17900	16100	14400	12700
	Watts	844	965	1080	1200	1310	1400	1480
	Amps	4.27	4.81	5.35	5.88	6.39	6.84	7.22
	Lb/h	275	264	252	238	224	210	195
55	Btu/h	25800	23900	22000	20100	18200	16300	14500
	Watts	815	951	1090	1220	1340	1450	1550
	Amps	4.12	4.73	5.34	5.95	6.52	7.05	7.50
	Lb/h	306	294	280	266	251	236	221

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.353060E+03	1.213828E+03	6.054738E+00	3.616552E+01
C2	3.364043E+02	-6.784822E+00	-2.341998E-02	3.204301E+00
C3	9.370932E+01	-1.525340E+01	-7.630948E-02	1.644311E+00
C4	3.458606E+00	-2.317435E-01	-8.333175E-04	2.918265E-02
C5	-1.677956E+00	2.135041E-01	7.327977E-04	-6.881546E-03
C6	-1.489818E+00	1.614922E-01	8.365568E-04	-1.897192E-02
C7	1.150071E-02	-1.984004E-04	-3.501603E-06	1.151135E-04
C8	-1.601213E-02	1.310551E-03	5.770525E-06	-6.541932E-05
C9	1.606042E-03	-1.866248E-04	4.443330E-07	-8.424486E-06
C10	4.489127E-03	-5.778339E-04	-3.074983E-06	4.821427E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWG5515EVA

General Information

Model	AWG5515EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	3800	3550					
	Watts	751	752					
	Amps	2.86	2.93					
	Lb/h	49.3	47.7					
-10	Btu/h	4530	4140	3700				
	Watts	793	796	796				
	Amps	3.02	3.08	3.13				
	Lb/h	58.2	55.4	51.4				
-5	Btu/h	5480	4960	4380	3790			
	Watts	840	846	850	848			
	Amps	3.20	3.27	3.31	3.34			
	Lb/h	69.9	65.7	60.4	54.5			
0	Btu/h	6630	5980	5260	4540	3860		
	Watts	889	901	909	911	909		
	Amps	3.38	3.46	3.52	3.55	3.55		
	Lb/h	84.0	78.7	72.1	64.9	57.6		
5	Btu/h	8000	7210	6350	5480	4660		
	Watts	939	958	971	979	981		
	Amps	3.57	3.67	3.75	3.79	3.80		
	Lb/h	101	94.2	86.4	77.9	69.2		
10	Btu/h	9550	8630	7640	6630	5650	4760	4010
	Watts	987	1010	1040	1050	1060	1060	1050
	Amps	3.76	3.88	3.98	4.05	4.08	4.07	4.02
	Lb/h	119	112	103	93.4	83.5	73.9	65.3
15	Btu/h	11300	10200	9110	7960	6830	5790	4890
	Watts	1030	1070	1100	1120	1140	1140	1140
	Amps	3.93	4.09	4.21	4.31	4.36	4.38	4.35
	Lb/h	140	132	122	111	100	89.2	79.2
20	Btu/h	13200	12000	10800	9470	8200	7000	5940
	Watts	1070	1120	1160	1190	1220	1230	1230
	Amps	4.09	4.28	4.44	4.57	4.66	4.70	4.70
	Lb/h	163	154	143	131	119	107	95.7

25	Btu/h	15300	14000	12600	11200	9740	8390	7170
	Watts	1100	1170	1220	1260	1290	1320	1330
	Amps	4.21	4.45	4.65	4.82	4.95	5.03	5.06
	Lb/h	188	178	167	154	140	127	114
30	Btu/h	17600	16100	14600	13000	11400	9940	8560
	Watts	1130	1200	1270	1320	1370	1400	1420
	Amps	4.30	4.58	4.84	5.05	5.22	5.35	5.42
	Lb/h	215	204	192	178	164	149	136
35	Btu/h	20000	18400	16700	15000	13300	11600	10100
	Watts	1140	1230	1310	1380	1440	1480	1510
	Amps	4.34	4.68	4.99	5.26	5.48	5.66	5.78
	Lb/h	243	232	219	204	189	174	159
40	Btu/h	22600	20900	19000	17200	15300	13500	11800
	Watts	1140	1240	1340	1420	1500	1550	1600
	Amps	4.33	4.74	5.10	5.43	5.71	5.94	6.12
	Lb/h	272	261	247	232	216	200	184
45	Btu/h	25300	23500	21500	19500	17500	15500	13700
	Watts	1120	1250	1360	1460	1550	1620	1680
	Amps	4.26	4.74	5.17	5.56	5.91	6.20	6.44
	Lb/h	303	291	277	262	245	228	211
50	Btu/h	28200	26200	24100	21900	19700	17600	15600
	Watts	1090	1230	1360	1480	1580	1680	1750
	Amps	4.12	4.67	5.18	5.64	6.06	6.42	6.72
	Lb/h	336	323	309	293	275	257	240
55	Btu/h	31100	29000	26800	24500	22200	19900	17700
	Watts	1030	1200	1350	1490	1610	1720	1810
	Amps	3.90	4.54	5.13	5.67	6.16	6.60	6.97
	Lb/h	369	357	342	325	307	288	270

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.229536E+03	6.932040E+02	2.358027E+00	4.445743E+00
C2	4.332047E+02	-5.770136E+00	1.439539E-03	4.091622E+00
C3	2.023883E+02	2.899552E+00	1.212638E-02	3.099503E+00
C4	4.099847E+00	-2.136085E-01	-9.472554E-04	3.454944E-02
C5	-1.892906E+00	2.630741E-01	5.979733E-04	-4.379632E-03
C6	-2.707799E+00	1.350824E-03	6.160668E-05	-3.467408E-02
C7	-1.031927E-02	-2.693953E-03	-1.077460E-05	-1.719498E-04
C8	-1.985336E-04	2.845588E-03	1.276364E-05	1.663565E-04
C9	-4.604837E-03	-8.284592E-04	-1.760059E-06	-1.049228E-04
C10	8.872769E-03	-8.799094E-05	-6.645456E-07	1.044813E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature